# PLANT PATENTS

JANUARY 1, 1977 -- DECEMBER 31, 2001



April 2002 U.S. PATENT AND TRADEMARK OFFICE INFORMATION PRODUCTS DIVISION/ TAF BRANCH PK 3 - SUITE 441, WASHINGTON, DC 20231 TEL (703) 306-2600/ FAX (703) 306-2737

A TECHNOLOGY ASSESSMENT AND FORECAST REPORT

This Technology Assessment and Forecast (TAF) Program Report profiles patent activity for U.S. plant patents (hereafter referred to as patents) granted between **January 1, 1977** and **December 31, 2001**. The source of the data used for this report is the TAF database maintained by the Information Products Division.

### Data Distribution By Date of Grant and By Date of Application

#### Parts A1 and A2

Part A1 distributes patent GRANT data by year of patent grant ("Patents Granted By Date of Patent Grant"). Part A2 distributes grant data by the year in which the patented application was filed ("Patents Granted By Date of Patent Application"). Parts A1 and A2 each provide patent counts (pages A1-1 and A2-1) and percent distributions (pages A1-2 and A2-2).

Patent data in the "Pre 1988" column corresponds to the period January 1, 1977 through December 31, 1987.

#### Part B

Part B of this report distributes patent GRANT data for organizations that have received U.S. patents since 1977. Data are presented by the year in which the patent was granted ("Patents By Year of Grant") and the year the patented application was filed ("Patents by Year of Application").

DATA FOR THOSE APPLICATIONS WHICH WERE FILED BUT NEVER ISSUED (ROUGHLY 25% OF TOTAL FILINGS) ARE NOT INCLUDED IN THIS REPORT.

Since the average time period between filing for a patent and the issuing of the patent (i.e., a patent's "pendency") is now about 24 months, the patented application data for the most recent years are incomplete.\* This is because a significant number of the applications filed in the most recent years, which will ultimately become patents, were still pending in **December 2001**. Since they had not yet become patents at the time this report was prepared, they were not included in this report.

Patented application data are of significant value since the date an application was filed more accurately reflects when the technology was developed. Additionally, fluctuations in data based on application date are much more likely to reflect changes in technological activity, since such fluctuations would for the most part be immune from changes in PTO processing such as occurred in years such as 1986 when the PTO issued fewer patents than would normally have been expected due to a lack of funds to print patents. Note that a patent's "pendency" can be quite variable from one patent to another thereby affecting the date of patent grant. Such variation in pendency is

determined by many factors, including PTO workload (which varies between technologies), budget and manpower levels, patent printing schedules, etc.

## Parts of the Report

Parts A1 and A2 present tables which show, by number and percent, the patent activity. Part A1 presents data by year of patent grant ("Patents Granted by Date of Patent Grant"). Part A2 redistributes grant data by year of patent application ("Patents Granted by Date of Patent Application"). The location of patent origin is determined by the residence of the first-named inventor at the time of grant.

Information on **patent ownership** reflects ownership at the time of patent grant and does not include subsequent changes in ownership. If more than one assignee was declared at the time of grant, the patent is attributed to the first-named assignee. The U.S. and Foreign Corporations ownership categories count predominantly corporate patents; however, patents assigned to other organizations such as small businesses, nonprofit organizations, universities, etc. are also included in this category. While U.S. Government patent ownership includes only patents granted to the Federal Government, no such distinction is made for Foreign Government patents.

**Part B** is a ranked listing of national and international organizations (i.e., corporations, universities, government agencies) which have received 5 or more U.S. plant patents since 1977. Data line 1 for each listed organization distributes counts of patent grants by year of grant. Data line 2 for each organization redistributes those same patent grants by year in which the patented application was filed. Information on patent ownership reflects ownership at the time of patent grant. Although a substantial effort has been made to combine name variations into a single organizational name, many organizations continue to have patents listed under more than one organizational name.

<sup>\*</sup> As of **December 31, 2001**, UTILITY patent application data (most issued patent documents are utility patents) were approximately 79% complete for patent applications filed in 1998, 53% complete for applications filed in 1999, and 16% complete for 2000 filings. They are essentially complete for applications filed prior to 1998. Currently, completion percentages restricted to plant patents are not available.

Part A1
Patent Grants As Distributed By Year of Patent Grant

PLANI PAIENIS, 19//	2001														rage	A1- 1	
		Patents	Granted	By Da	te Of	Patent	Grant	(Granted:	Jan 01,	1977 -	Dec 31,	2001)					
							NI	JMBER OF	DATENTS								
	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	Total	
Total	2067	425	587	318	353	321	442	499	387	362	394	561	421	548	584	8269	
U.S. Origin	1469	260	345	153	237	196	236	283	201	183	230	245	201	232	372	4843	
Foreign Origin	598	165	242	165	116	125	206	216	186	179	164	316	220	316	212	3426	
GERMANY	203	27	102	51	39	17	52	32	44	48	34	62	53	70	22	856	
NETHERLANDS	101	54	58	38	23	46	63	63	34	41	29	71	65	102	57	845	
FRANCE	75	32	24	34	21	13	22	16	16	18	27	27	10	9	4	348	
UNITED KINGDOM	72	13	13	11	7	4	13	37	16	8	22	24	20	35	9	304	
DENMARK	17	13	3	1	3	4	3	11	16	27	9	40	11	24	21	203	
JAPAN	8	3	12	7	2	11	8	9	13	9	6	20	12	16	23	159	
AUSTRALIA	2	7	10	3	9	2	3	2	3	7	14	13	11	15	25	126	
ISRAEL	2	2		2		7	21	14	21	7		12	6	3	14	111	
NEW ZEALAND	23	3	8	2	4	7	7	6	4	2	2	4	9	11	4	96	
CANADA	12		4	6	1	8	5	2	7		15	8	6	10	7	91	
BELGIUM	5	5	1		2	2	2	10	3	2	4	20	5	12	6	79	
COSTA RICA	31	1			3		4	4	6	5		4	2	1	9	70	
ITALY	10	4	2	9		2	2	1	1	2		1	1	2		37	
AUSTRIA	15	1						1								17	
SWITZERLAND	11		2													13	
SOUTH AFRICA	1											6	1		4	12	
SPAIN			2			2		3		2			1	1	1	12	
SWEDEN	4				1		1			1		1	1	1	1	11	
COLOMBIA	3		1	1				1	1							7	
SOUTH KOREA													2	1	3	6	
INDIA												2	1		1	4	
ARGENTINA	1							1			1					3	
IRELAND								1	1							2	
HONDURAS								1			1					2	
TAIWAN	1							1			_					2	
MEXICO	_							-					1	1		2	
BRAZ IL														2		2	
LEBANON					1									·		1	
NORWAY	1				_											1	
PHILIPPINES	_												1			1	
SLOVAKIA													1			1	
MOROCCO												1	_			1	
PORTUGAL															1	1	
Ownership:																	
U.S. Corporations	1167	197	308	144	188	164	232	250	200	163	198	237	168	246	321	4183	
U.S. Government					1						2		1			4	
U.S. Individuals	586	98	119	57	75	60	61	82	59	55	73	74	65	48	89	1601	

Foreign Corporations

Foreign Government

Foreign Individuals

		Patents	Granted	. By Da	ite Of	Patent	Grant	(Granted:	Jan 01,	1977 -	Dec 31,	2001)					
								ERCENT OF									
	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	Total	
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
U.S. Origin	71	61	59	48	67	61	53	57	52	51	58	44	48	42	64	59	
Foreign Origin	29	39	41	52	33	39	47	43	48	49	42	56	52	58	36	41	
GERMANY	10	6	17	16	11	5	12	6	11	13	9	11	13	13	4	10	
NETH ERLANDS	5	13	10	12	7	14	14	13	9	11	7	13	15	19	10	10	
FRANCE	4	8	4	11	6	4	5	3	4	5	7	5	2	2	1	4	
UNITED KINGDOM	3	3	2	3	2	1	3	7	4	2	6	4	5	6	2	4	
DENMARK	1	3	1		1	1	1	2	4	7	2	7	3	4	4	2	
JAPAN		1	2	2	1	3	2	2	3	2	2	4	3	3	4	2	
AUSTRALIA		2	2	1	3	1	1		1	2	4	2	3	3	4	2	
ISRAEL				1		2	5	3	5	2		2	1	1	2	1	
NEW ZEALAND	1	1	1	1	1	2	2	1	1	1	1	1	2	2	1	1	
CANADA	1	_	1	2	_	2	1	_	2	·	4	1	1	2	1	1	
BELGIUM		1			1	1		2	1	1	1	4	1	2	1	1	
COSTA RICA	1				1		1	1	2	1		1			2	1	
ITALY	_	1		3	_	1	_	_	_	1		=			_	0	
AUSTRIA	1															0	
SWITZERLAND	1															0	
SOUTH AFRICA	_											1			1	0	
SPAIN						1		1		1		_			_	0	
SWEDEN						_		-		-						0	
COLOMBIA																0	
SOUTH KOREA															1	0	
INDIA															_	0	
ARGENTINA																0	
IRELAND																0	
HONDURAS																0	
TAIWAN																0	
MEXICO																0	
BRAZIL																0	
LEBANON																0	
NORWAY																0	
PHILIPPINES																0	
SLOVAKIA																0	
MOROCCO																0	
PORTUGAL																0	
FORTUGAL																U	
Ownership:																	
	E.C.	46	52	45	53	51	52	50	52	45	50	42	40	45	55	51	
U.S. Corporations	56	40	5∠	45	53	21	52	50	52	45		42	40	45	22		
U.S. Government U.S. Individuals	2.0	2.2	20	10	21	1.0	1.4	16	1 5	1 5	1	1 2	1 5	0	1 =	0 19	
U.S. Individuals	28	23	20	18	21	19	14	16	15	15	19	13	15	9	15	19	
n				0.4			0.4	2.0	0.5	20		25	25	20			
Foreign Corporations	10	23	15	24	12	23	24	30	27	32	25	35	35	38	23	22	
Foreign Government	_	_				2	1	_	1	_	1		_	1	1	0	
Foreign Individuals	5	8	12	13	12	5	9	3	5	8	5	9	9	8	6	7	

# Part A2 Patent Grants As Distributed By Year of Patent Application

 Patents	Granted	Bv	Date	Of	Patent	Application	(Granted:	Jan 01	. 1977 ·	- Dec 31, 2001)	

	140	cence Gi	- unccu	by Date	OI Fac	enc App	PIICACIO	(Granc	eu. van	01, 15,,	200 3	1, 2001,					
						N	UMBER C	F PATENT	ED APPLI	CATIONS							
	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	Total	
Total	2840	360	363	410	399	317	340	424	431	624	622	558	453	116	12	8269	
U.S. Origin	1925	224	195	251	212	180	214	221	218	316	266	261	281	79		4843	
Foreign Origin	915	136	168	159	187	137	126	203	213	308	356	297	172	37	12	3426	
GERMANY	285	56	53	45	35	26	25	46	52	47	88	73	22	3		856	
NETHERLANDS	203	19	40	40	74	28	41	37	47	58	88	97	57	12	4	845	
FRANCE	120	17	37	22	12	19	13	14	21	38	17	15	1	2		348	
UNITED KINGDOM	91	12	10	13	7	16	14	23	11	33	33	34	6	1		304	
DENMARK	30	4	2	2	6		8	19	27	35	26	23	13		8	203	
JAPAN	18	8	4	12	4	11	2	12	15	26	15	9	23			159	
AUSTRALIA	18	2	8	4	2	2	2	4	8	21	21	9	15	10		126	
ISRAEL	4	2		1	29	5	7	25	3	12	8	2	13			111	
NEW ZEALAND	32	2	5	6	8	6	1	5	2	6	18	3	2			96	
CANADA	15	6	2	4	6	5	1	6	9	11	9	10	6	1		91	
BELGIUM	11			4		8	8	2	3	15	10	10	6	2		79	
COSTA RICA	32			3		5	1	5	8		7		4	5		70	
ITALY	14	7	4	1	3	1		1	2	2		2				37	
AUSTRIA	16						1									17	
SWITZERLAND	13															13	
SOUTH AFRICA	1								1	4	2	2	2			12	
SPAIN	2			2		3			2		1	1	1			12	
SWEDEN	4		1		1			1			2	1	1			11	
COLOMBIA	3	1	1			1		1								7	
SOUTH KOREA											3	3				6	
INDIA											3	1				4	
ARGENTINA	1						1		1							3	
IRELAND							1	1								2	
HONDURAS								1	1							2	
TAIWAN	1					1										2	
MEXICO											2					2	
BRAZIL												2				2	
LEBANON			1													1	
PHILIPPINES											1					1	
SLOVAKIA											1					1	
MOROCCO											1					1	
NORWAY	1															1	
PORTUGAL														1		1	
Ownership:																	
U.S. Corporations	1546	184	178	205	184	183	184	213	191	293	239	267	243	73		4183	
U.S. Government	1346	104		203	T04	103	104	213		293 1	239	20/	443	13			
U.S. Government U.S. Individuals	750	76	1 61	82	58	48	59	64	1 77	93	89	60	69	15		4 1601	
U.B. Individuals	/50	76	0.1	0.4	30	40	23	04	77	33	03	60	09	13		1001	
Foreign Corporations	366	52	81	71	114	69	88	123	130	191	212	208	109	21	9	1844	
Foreign Government	2	22	1	2	11	3	1	4	2	4	3	4	3		•	40	
Foreign Individuals	176	48	41	50	32	14	8	20	30	42	78	19	29	7	3	597	
- Ji Cigii individuals	1,0			50	72		,		50		, 0			•	-	55,	

	_			_									
 Patents	Granted	Bv	Date	Ο£	Patent	Application	(Granted:	Jan (	01.	1977 -	· Dec 31.	2001)	

						P	ERCENT O	F PATENT	ED APPLI	CATIONS						
	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	Total
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
U.S. Origin	68	62	54	61	53	57	63	52	51	51	43	47	62	68		59
Foreign Origin	32	38	46	39	47	43	37	48	49	49	57	53	38	32	100	41
GERMANY	10	16	15	11	9	8	7	11	12	8	14	13	5	3		10
NETHERLANDS	7	5	11	10	19	9	12	9	11	9	14	17	13	10	33	10
FRANCE	4	5	10	5	3	6	4	3	5	6	3	3		2		4
UNITED KINGDOM	3	3	3	3	2	5	4	5	3	5	5	6	1	1		4
DENMARK	1	1	1		2		2	4	6	6	4	4	3		67	2
JAPAN	1	2	1	3	1	3	1	3	3	4	2	2	5			2
AUSTRALIA	1	1	2	1	1	1	1	1	2	3	3	2	3	9		2
ISRAEL		1			7	2	2	6	1	2	1		3			1
NEW ZEALAND	1	1	1	1	2	2		1		1	3	1				1
CANADA	1	2	1	1	2	2		1	2	2	1	2	1	1		1
BELGIUM				1		3	2		1	2	2	2	1	2		1
COSTA RICA	1	ē	_	1	_	2		1	2		1		1	4		1
ITALY	_	2	1		1											0
AUSTRIA	1															0
SWITZERLAND										_						0
SOUTH AFRICA						_				1						0
SPAIN						1										0
SWEDEN																0
COLOMBIA																
SOUTH KOREA												1				0
INDIA ARGENTINA																0
IRELAND																0
HONDURAS																0
TAIWAN MEXICO																0
BRAZIL																0
LEBANON																0
PHILIPPINES																0
SLOVAKIA																0
MOROCCO																0
NORWAY																0
PORTUGAL														1		0
<del>-</del>														=		-
Ownership:																
U.S. Corporations	54	51	49	50	46	58	54	50	44	47	38	48	54	63		51
U.S. Government																0
U.S. Individuals	26	21	17	20	15	15	17	15	18	15	14	11	15	13		19
Foreign Corporations	13	14	22	17	29	22	26	29	30	31	34	37	24	18	75	22
Foreign Government					3	1		1		1		1	1			0
Foreign Individuals	6	13	11	12	8	4	2	5	7	7	13	3	6	6	25	7

## Part B

Ranked Listing of Organizations with Patent Grants
As Distributed By Year of Patent Grant
and As Distributed By Year of Patent Application

Organizational Patenting				(Grante	d: Jan 0	1, 1977	- Dec 31,	, 2001)	R	anked Li	st of Or	ganizati	ons with	5 or	More Pat	ents	
	_																
	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	TOTAL	
	1900	1900	1909	1990	1991	1992	1993	1334	1993	1990	1997	1990	1999	2000	2001	IOIAL	
YODER BROTHERS, INC.																	
Patents By Year of Grant:	137	21	45	14	47	18	38	53	22	29	36	26	22	14	77	599	
Patents By Year of Application:	172	32	45	28	35	24	43	29	23	40	35	15	55	23	0	599	
BEAR CREEK GARDENS, INC.	•	•	0	•	15	1.4	1.2	61	20	1.0	4	15	20	F.3	•	262	
Patents By Year of Grant: Patents By Year of Application:	0 9	0 2	9	2 27	15 14	14 26	13 30	61 35	29 12	17 18	4 29	15 49	29 12	53 0	2	263 263	
Pacents by Year of Application:	,	2	U	21	14	20	30	33	12	10	29	43	12	U	U	203	
CONARD-PYLE COMPANY																	
Patents By Year of Grant:	62	13	14	21	12	9	24	13	10	16	14	7	1	0	0	216	
Patents By Year of Application:	81	11	18	17	11	18	12	10	18	13	7	0	0	0	0	216	
PAUL ECKE RANCH, INC.																	
Patents By Year of Grant:	9	0	0	14	7	11	25	12	16	1	14	26	12	24	31	202	
Patents By Year of Application:	9	11	6	15	8	18	11	16	4	22	19	32	30	1	0	202	
JACKSON & PERKINS CO.																	
Patents By Year of Grant:	112	13	21	10	1	0	0	0	0	0	0	0	0	0	0	157	
Patents By Year of Application:	144	6	7	0	0	0	0	0	0	0	0	0	0	0	0	157	
		-	·	-	-	•	-	-	•	•	-	-	•	•			
MIKKELSENS, INC.																	
Patents By Year of Grant:	78	23	6	12	0	15	6	12	1	3	1	0	0	0	0	157	
Patents By Year of Application:	105	2	12	13	2	6	12	1	4	0	0	0	0	0	0	157	
PAN AMERICAN PLANT COMPANY		_	_	_	_	_	_	_	_	_	_	_	_	_	_		
Patents By Year of Grant:	116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116	
Patents By Year of Application:	116	U	0	0	0	U	U	U	U	U	0	U	0	0	0	116	
NOR'EAST MINIATURE ROSES, INC.																	
Patents By Year of Grant:	48	2	17	1	5	5	7	4	1	6	5	4	2	2	1	110	
Patents By Year of Application:	61	7	4	5	5	4	3	7	2	4	8	0	0	0	0	110	
DEVOR NURSERIES, INC.																	
Patents By Year of Grant:	7	0	4	0	16	18	5	4	10	13	5	7	6	3	0	98	
Patents By Year of Application:	10	1	7	18	9	7	5	9	13	11	8	0	0	0	0	98	
VAN STAAVEREN B.V.  Patents By Year of Grant:	5	4	6	0	5	17	4	12	6	4	4	10	9	7	0	93	
Patents By Year of Application:	15	0	0	22	4	2	10	6	4	11	9	3	7	0	0	93	
racenes by rear or apprication.			J		•	~		•	-		,	•	•	•	J	33	
FLORFIS AG																	
Patents By Year of Grant:	0	0	0	6	3	0	8	15	14	11	5	7	6	3	7	85	
Patents By Year of Application:	0	0	9	0	7	1	15	18	10	8	8	3	5	1	0	85	

PLANT PATENTS, 1977 - 2001

Organizational Patenting				(Granta	dTan O	1 1077	- Deg 21	2001)	P	anked ti	et of o-	anizati	one with	5 00	More Da	tents
Organizational Patenting				(Grante	u. Jan U	1, 19//	- Dec 31	, 2001)	R	ankeu Ll	SC OI OF	yanızatı	OHS WITH	5 OF	MOLE Pa	cents
	Pre															
	1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	TOTAL
MELRIDGE, INC.																
Patents By Year of Grant:	37	26	20	0	0	0	0	0	0	0	0	0	0	0	0	83
Patents By Year of Application:	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83
UNIVERSITY OF CALIFORNIA, THE REGENTS	S OF															
Patents By Year of Grant:	38	6	10	1	2	0	4	8	2	2	0	4	0	2	3	82
Patents By Year of Application:	54	1	0	2	3	1	8	2	2	4	0	2	2	1	0	82
FIDES BEHEER B.V.																
Patents By Year of Grant:	0	13	20	0	0	14	23	1	2	1	2	3	0	2	0	81
Patents By Year of Application:	31	2	0	4	31	2	1	2	1	3	2	0	2	0	0	81
GESSELLSCHAFTSVERTRAG UBER DIE ERFINI																
Patents By Year of Grant:	55	6	16	0	0	0	0	0	0	0	0	0	0	0	0	77
Patents By Year of Application:	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77
CLEANGRO, LTD.																
Patents By Year of Grant:	0	0	0	0	0	0	0	3	0	0	15	14	11	23	2	68
Patents By Year of Application:	0	0	0	0	0	2	1	1	0	25	14	25	0	0	0	68
DANZIGER - "DAN" FLOWER FARM  Patents By Year of Grant:	0	0	0	0	0	1	16	2	20	4	0	7	5	1	12	68
Patents By Year of Application:	0	0	0	0	17	2	0	21	3	7	5	2	11	0	0	68
racents by rear of Application:	U	U	U	U	1,	2	U	21	3	,	5	2	11	U	U	00
OGLEVEE LTD.																
Patents By Year of Grant:	0	0	12	2	0	5	4	2	4	2	2	3	0	9	23	68
Patents By Year of Application:	0	9	5	1	7	1	0	6	4	3	0	9	2	21	0	68
racenes by rear or apprication.			,		,	-		•	-	,	Ū	,			· ·	00
LABORATOIRE DE PHYSIOLOGIE VEGETALE I	DE LA LON	DE														
Patents By Year of Grant:	29	17	3	11	0	0	1	4	1	0	0	0	0	0	0	66
Patents By Year of Application:	49	8	3	0	1	4	0	1	0	0	0	0	0	0	0	66
		_	J		-	-	-	-	J			,	<b>-</b>	_	J	
GEORGE J. BALL, INC.																
Patents By Year of Grant:	7	0	0	0	3	0	13	4	12	22	0	0	0	0	0	61
Patents By Year of Application:	7	0	0	3	7	7	3	12	22	0	0	0	0	0	0	61
ARMSTRONG NURSERIES, INC.																
Patents By Year of Grant:	55	2	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Patents By Year of Application:	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
CHRYSANTHEMUM BREEDERS ASSOCIATION N	.v.															
Patents By Year of Grant:	17	11	2	0	0	0	2	9	0	0	3	3	0	9	1	57
Patents By Year of Application:	29	1	0	0	4	0	7	0	0	6	0	10	0	0	0	57

PLANI PAIENIS, 1977 - 2001															Page	Б- 3	
Organizational Patentin	ıσ			(Grante	d: Jan 0	1. 1977	- Dec 31	. 2001)	R	anked Li	st of Or	ganizatio	ons with	5 or i	More Pat	ents	
<b>J</b>	-5			(		_,		,,				,					
	Pre																
	1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	TOTAL	
BALL PANAM PLANT COMPANY																	
Patents By Year of Grant:	25	21	10 0	0	0	0	0	0	0	0	0	0	0	0	0	56 56	
Patents By Year of Application:	56	0	U	U	U	U	U	U	U	U	U	0	U	U	U	56	
DE RUITER'S NIEUWE ROZEN B.V.																	
Patents By Year of Grant:	0	4	1	1	7	0	3	6	5	9	0	10	7	3	0	56	
Patents By Year of Application:	4	1	6	2	3	6	1	2	11	4	13	3	0	0	0	56	
BALL FLORAPLANT, A DIVISION OF BALL	L HORTICULT	URAL CO.															
Patents By Year of Grant:	0	0	0	0	0	0	5	2	0	0	0	0	0	30	18	55	
Patents By Year of Application:	0	0	0	0	0	7	0	0	0	0	0	16	32	0	0	55	
CALIFORNIA FLORIDA PLANT COMPANY L.	D																
Patents By Year of Grant:	0	0	0	0	3	8	21	0	5	0	4	8	0	0	6	55	
Patents By Year of Application:	0	0	0	10	9	12	1	5	0	12	0	6	0	0	0	55	
	_	-	-		-		_	-	-		-	-	-	-	-		
DAVID AUSTIN ROSES LIMITED																	
Patents By Year of Grant:	0	0	0	4	3	0	9	20	0	5	0	3	3	4	0	51	
Patents By Year of Application:	0	4	3	9	0	11	5	4	5	0	6	4	0	0	0	51	
DUMMEN JUNGPFLANZENKULTUREN	0	0	0	0	0	0	0	0	0	19	6	0	6	17	1	49	
Patents By Year of Grant: Patents By Year of Application:	0	0	0	0	0	0	0	0	20	6	0	21	1	1	0	49	
racents by rear or apprication.	Ü	Ū	Ū	Ū	Ū	Ū	Ū	Ū	20	·	Ū	21	-	_	Ū	40	
SUNTORY LTD.																	
Patents By Year of Grant:	0	0	3	0	0	0	0	2	7	3	3	10	10	4	6	48	
Patents By Year of Application:	0	3	0	0	0	0	0	5	10	11	9	4	6	0	0	48	
JOHN BODGER & SONS CO.											_						
Patents By Year of Grant:	0	0	0	0	0	0	0	0	2	0	7	21	6	4	7	47	
Patents By Year of Application:	0	0	0	0	0	0	0	2	7	17	10	11	0	0	0	47	
WEEKS WHOLESALE ROSE GROWERS, INC.																	
Patents By Year of Grant:	0	0	3	0	1	2	3	0	10	7	4	7	3	5	0	45	
Patents By Year of Application:	1	2	0	1	3	2	2	8	7	6	6	7	0	0	0	45	
TERRA NIGRA HOLDING B.V.																	
Patents By Year of Grant:	0	0	0	0	0	10	0	12	5	0	9	0	1	4	0	41	
Patents By Year of Application:	0	0	0	3	7	7	9	1	4	5	0	5	0	0	0	41	
MONROVIA NURSERY CO.																	
MONACOTA NORDERI CO.		_			_		_			_	_	_	_				

Patents By Year of Grant:

Patents By Year of Application:

Organizational Patenting				(Grante	ed: Jan 0	1, 1977	- Dec 31	, 2001)	R	anked Li	st of Or	ganizati	ons with	5 or 1	More Pat	ents	
	Pre																
	1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	TOTAL	
POULSEN ROSER APS																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	10	5	19	2	36	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	15	19	2	0	0	36	
DRISCOLL STRAWBERRY ASSOCIATES INC.																	
Patents By Year of Grant:	14	2	1	2	1	0	0	3	1	0	0	3	1	6	1	35	
Patents By Year of Application:	16	3	1	0	0	0	3	1	0	2	6	2	1	0	0	35	
KLEMM & SOHN																	
Patents By Year of Grant:	1	3	5	3	2	2	2	8	2	0	0	0	0	7	0	35	
Patents By Year of Application:	4	6	4	2	2	2	8	0	0	0	0	5	2	0	0	35	
OGLEVEE ASSOCIATES, INC.																	
Patents By Year of Grant:	29	5	0	0	0	0	0	0	0	0	0	0	0	0	0	34	
Patents By Year of Application:	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	
	34	U	U	Ü	U	U	U	U	U	U	Ū	Ū	U	U	U	34	
RUTGERS UNIVERSITY																	
Patents By Year of Grant:	5	0	9	7	2	0	4	2	2	0	0	0	0	3	0	34	
Patents By Year of Application:	8	12	1	2	4	3	0	1	0	0	0	3	0	0	0	34	
RIJNPLANT																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	3	9	13	8	33	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	2	4	17	9	1	0	33	
STARK BROTHERS NURSERIES & ORCHARDS (	COMPANY																
Patents By Year of Grant:	26	2	1	0	0	0	0	2	2	0	0	0	0	0	0	33	
Patents By Year of Application:	28	1	0	0	0	1	1	2	0	0	0	0	0	0	0	33	
SEQUOIA NURSERY																	
Patents By Year of Grant:	16	2	5	1	0	3	5	0	0	0	0	0	0	0	0	32	
Patents By Year of Application:	20	3	1	0	7	1	0	0	0	0	0	0	0	0	0	32	
BALL SEED CO., A DIVISION OF GEO. J.	BALL, IN	īC.															
Patents By Year of Grant:	0	0	16	0	3	3	1	2	6	0	0	0	0	0	0	31	
Patents By Year of Application:	7	9	0	6	0	1	0	5	3	0	0	0	0	0	0	31	
JACKSON & PERKINS WHOLESALE, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	31	0	0	31	
TWYFORD INTERNATIONAL, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	7	3	8	9	2	1	0	0	30	
Patents By Year of Application:	0	0	0	0	0	1	6	4	9	8	2	0	0	0	0	30	

Organizational Patenting				(Cranto	d. Tan O	1 1077	- Dog 21	2001)	R	ankod Ii	at of Or	anni mati	ona with	5 or	Moro Dat	ents	
Organizacional Facencing				(Grance	u. Uan U	11, 19//	- Dec 31	, 2001)	K	anked bi	st or or	ganizaci	Olis With	5 01	MOIE Fat	encs	
	Pre																
	1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	TOTAL	
GOLDSMITH SEEDS, INC.																	
Patents By Year of Grant:	0	0	0	0	0	13	0	3	6	0	0	2	3	0	1	28	
Patents By Year of Application:	0	0	0	0	13	0	3	5	1	2	3	1	0	0	0	28	
TERRA-NOVA NURSERIES, INC.	0	0	0	0	0	0	0	3	0	0	0	1	2	12	9	27	
Patents By Year of Grant: Patents By Year of Application:	0	0	0	0	0	0	3	0	0	0	2	13	9	0	0	27	
ratents by rear or apprication:	U	U	U	U	U	U	3	U	U	U	2	13	,	U	U	21	
SUNSHINE FOLIAGE WORLD																	
Patents By Year of Grant:	0	0	0	0	0	0	0	3	4	2	1	7	6	2	1	26	
Patents By Year of Application:	0	0	0	0	0	0	3	4	2	7	3	6	1	0	0	26	
CEBECO LILIES, INC.																	
Patents By Year of Grant:	0	0	0	0	0	1	0	1	8	0	0	9	5	0	0	24	
Patents By Year of Application:	0	0	0	1	0	1	0	8	0	4	10	0	0	0	0	24	
CORNELL RESEARCH FOUNDATION INC.	-	•	-		•	2	0	•		1	•	•	7	0	2	2.2	
Patents By Year of Grant: Patents By Year of Application:	5 7	2	1	1 2	0	2	2	2	0	1	0 7	0	0	0	2	23 23	
racence by rear or apprication.	,		v		-	U		· ·	J	· ·	,		Ū	v	Ū	23	
GEBR. VLETTER & J.A. DEN HAAN																	
Patents By Year of Grant:	0	0	0	5	0	0	17	1	0	0	0	0	0	0	0	23	
Patents By Year of Application:	0	4	1	0	18	0	0	0	0	0	0	0	0	0	0	23	
KNUD JEPSEN A/S																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	4	0	6	0	3	9	22	
Patents By Year of Application:	0	0	0	0	0	0	0	0	4	5	1	3	4	0	5	22	
PURDUE RESEARCH FOUNDATION																	
Patents By Year of Grant:	18	1	0	0	0	0	0	0	2	0	1	0	0	0	0	22	
Patents By Year of Application:	19	0	0	0	0	0	2	0	1	0	0	0	0	0	0	22	
racenos sy rear or approaches.		•	•		·		-	·	-	· ·	•	•	· ·				
FA. GEBR. VERWER																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	10	0	9	2	21	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	10	9	2	0	0	21	
SELECTION NEW PLANT SARL	_	_	_	_	_	_	_	_	_		_	_	_	_	_		
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	11	6	2	0	2	0	21	
Patents By Year of Application:	0	0	0	0	0	0	0	11	0	7	1	2	0	0	0	21	
BLOOMS OF BRESSINGHAM LTD.																	
Patents By Year of Grant:	0	0	0	1	1	0	2	3	1	0	1	3	2	4	2	20	
			-		_		_	-				-		-	_		

Patents By Year of Application:

PLANT PATENTS, 1977 - 2001

Organizational Patenting				(Grante	d: Jan 0	1, 1977	- Dec 31	, 2001)	R	anked Li	st of Or	ganizati	ons with	5 or	More Pat	ents	-
	Pre																
	1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	TOTAL	
ETS. GUILLOU FRERES	•	•	•	_		•	•	•		•				•	•		
Patents By Year of Grant: Patents By Year of Application:	0	0	0 7	7 2	2 0	0	0	0 2	2	2 5	2 1	1 0	4 0	0	0	20 20	
Patents by rear or Application:	U	U	,	2	U	U	U	2	3	5	1	U	U	U	U	20	
CP (DELAWARE), INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	5	5	5	4	19	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	8	7	4	0	0	19	
1 document 27 Tour or inffiltrations.									Ţ			•	-				
MILESTONE AGRICULTURE INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	3	0	6	5	1	0	4	19	
Patents By Year of Application:	0	0	0	0	0	0	0	3	1	8	2	1	2	2	0	19	
BALL HORTICULTURAL COMPANY																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	13	5	0	0	0	18	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	18	
HER MAJESTY THE QUEEN IN RIGHT OF CAN	ADA, AS	REPRESEN	TED BY I	HE MINIS	TER OF A	GRICULTU	RE										
Patents By Year of Grant:	0	0	0	0	0	2	0	0	5	0	4	0	1	3	3	18	
Patents By Year of Application:	0	0	0	0	2	0	1	4	0	4	1	4	2	0	0	18	
CORN. BAK B.V.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		
Patents By Year of Grant:	0	0	0	0	3	0	2	3	0	1	0	2	4	0	2	17	
Patents By Year of Application:	0	0	1	2	1	1	2	2	0	1	5	0	2	0	0	17	
PLANT DEVELOPMENT SERVICES INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	1	4	12	17	
	0	0	0	0	0	0	0	0	0	1	0	6	5	<del>4</del> 5	0	17	
Patents By Year of Application:	U	U	U	U	U	U	U	U	U	1	U	6	5	5	U	1/	
PLANT SCIENCES, INC.																	
Patents By Year of Grant:	0	0	0	0	4	1	2	2	0	1	4	1	2	0	0	17	
Patents By Year of Application:	0	0	4	2	1	2	0	0	1	4	2	1	0	0	0	17	
racenes by rear or apprecation.	•	•	•	-	-	-	•	· ·	•	•	_	-	· ·	· ·	· ·	/	
SUN VALLEY BULB FARMS, INC.																	
Patents By Year of Grant:	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	
Patents By Year of Application:	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	
SUPERIOR FARMING COMPANY																	
Patents By Year of Grant:	15	1	0	1	0	0	0	0	0	0	0	0	0	0	0	17	
Patents By Year of Application:	16	0	1	0	0	0	0	0	0	0	0	0	0	0	0	17	
B. L. COBIA, INC.																	
Patents By Year of Grant:	11	0	0	5	0	0	0	0	0	0	0	0	0	0	0	16	
Patents By Year of Application:	11	5	0	0	0	0	0	0	0	0	0	0	0	0	0	16	

PLANT PATENTS, 1977 - 2001															Page	B - 7	
Organizational Patenting				(Grante	dTan O	1 1077	- Deg 31	2001)	P	anked Li	et of Or	ganizati.	one with	5 or	More Dat	ents	
Organizational Fatenting				(Grance	u. ban b	1, 13//	- Dec 31	, 2001)	1	anked HI	BC OI OI	ganizaci	OHS WICH	3 01	MOTE FAC	enca	
	Pre																
	1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	TOTAL	
B. V. HANDELSKWEKERIJ/M. C. VAN STAAV	VEREN																
Patents By Year of Grant:	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	
Patents By Year of Application:	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	
ENTHOVEN BREEDING B.V.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	8	0	0	6	2	0	0	16	
Patents By Year of Application:	0	0	0	0	0	0	0	8	0	6	0	2	0	0	0	16	
PLANT COMPANY																	
Patents By Year of Grant:	0	0	0	0	8	5	0	0	0	0	0	0	3	0	0	16	
Patents By Year of Application:	0	0	8	5	0	0	0	0	0	0	3	0	0	0	0	16	
BAY CITY FLOWER COMPANY, INC.																	
Patents By Year of Grant:	0	1	0	1	1	1	0	1	0	5	1	2	1	0	1	15	
Patents By Year of Application:	1	0	2	0	1	1	0	1	4	1	3	1	0	0	0	15	
FISCHER GERANIUMS, INC.																	
Patents By Year of Grant:	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	
Patents By Year of Application:	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	
GOLDSMITH PLANTS, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	10	5	15	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	12	3	0	0	15	
SAN JOAQUIN ROSE CO.																	
Patents By Year of Grant:	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	
Patents By Year of Application:	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	
E. G. HILL CO., INC.																	
Patents By Year of Grant:	11	0	0	0	0	0	2	0	0	0	0	0	0	0	1	14	
Patents By Year of Application:	11	0	0	0	0	2	0	0	0	0	0	0	1	0	0	14	
HINES NURSERIES INC.																	
Patents By Year of Grant:	0	0	0	0	3	0	0	1	1	0	0	0	0	0	9	14	
Patents By Year of Application:	0	0	3	0	0	1	0	1	0	0	0	0	9	0	0	14	
O. M. SCOTT AND SONS COMPANY																	
Patents By Year of Grant:	3	3	5	0	0	1	1	0	1	0	0	0	0	0	0	14	
Patents By Year of Application:	9	2	0	1	0	1	1	0	0	0	0	0	0	0	0	14	
OGLESBY PLANT LABORATORIES, INC.																	
Patents By Year of Grant:	0	0	1	0	1	0	2	2	0	1	3	4	0	0	0	14	
Patents By Year of Application:	0	1	0	1	2	0	2	0	1	6	1	0	0	0	0	14	

Organizational Patenting				(Grante	ed: Jan 0	1, 1977	- Dec 31	, 2001)	I	Ranked Li	st of Or	ganizati	ons with	5 or	More Pat	cents
	Pre															
	1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	TOTAL
OGLESBY PLANTS INTERNATIONAL, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	1	5	1	7	14
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	5	1	4	4	0	14
SAATZUCHT QUEDLINBURG GMBH																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	12	2	0	0	0	14
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	13	1	0	0	0	0	14
CARLTON ROSE NURSERIES, INC.																
Patents By Year of Grant:	7	1	1	1	0	2	0	0	0	0	1	0	0	0	0	13
Patents By Year of Application:	8	1	1	2	0	0	0	0	1	0	0	0	0	0	0	13
FUTURE PLANTS V.O.F.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	3	10	13
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	3	8	2	0	13
J. FRANK SCHMIDT & SON CO.																
Patents By Year of Grant:	1	1	0	1	4	0	1	0	2	0	0	3	0	0	0	13
Patents By Year of Application:	2	1	2	2	0	1	0	2	0	0	3	0	0	0	0	13
KENT'S BROMELIAD NURSERY, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	2	3	2	1	0	4	1	13
Patents By Year of Application:	0	0	0	0	0	0	2	3	2	1	0	4	1	0	0	13
RESEARCH CORPORATION TECHNOLOGIES, INC.																
Patents By Year of Grant:	0	0	1	4	6	0	1	0	1	0	0	0	0	0	0	13
Patents By Year of Application:	1	0	10	0	1	0	0	0	1	0	0	0	0	0	0	13

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TWYFORD PLANT LABORATORIES, INC.
Patents By Year of Grant:

ADAMS COUNTY NURSERY, INC.
Patents By Year of Grant:

GREEN CIRCLE GROWERS, INC.
Patents By Year of Grant:

Patents By Year of Application:

Patents By Year of Application:

FLORIDA FOUNDATION SEED PRODUCERS, INC. Patents By Year of Grant:

0

0

Patents By Year of Application:

Patents By Year of Application:

Opposite time 1 Patractica				(	J. T. 0	1 1077	D 21	2001)						F	D.		
Organizational Patenting				(Grante	d: Jan U	1, 1977	- Dec 31	, 2001)	R	anked Li	st or Or	ganizati	ons with	5 or	More Pat	cents	
	Pre																
	1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	TOTAL	
HILVERDA B.V.		_	_		_	_		_	_		_		_		_		
Patents By Year of Grant: Patents By Year of Application:	4	0	0	4	4	0	0	0	0	0	0	0	0	0	0	12 12	
racence by rear or apprication:	-	U	0	U	U	U	U	U	U	U	U	U	U	U	U	12	
ITO PACKING CO., INC.																	
Patents By Year of Grant:	0	1	2	4	0	2	1	0	1	1	0	0	0	0	0	12	
Patents By Year of Application:	3	3	1	2	1	0	0	1	1	0	0	0	0	0	0	12	
OMS INVESTMENTS, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	1	1	4	1	1	3	1	12	
Patents By Year of Application:	0	0	0	0	0	0	0	1	2	4	1	3	0	1	0	12	
dini promunda wunduny iya																	
SIRI BROTHERS NURSERY, INC.  Patents By Year of Grant:	10	1	1	0	0	0	0	0	0	0	0	0	0	0	0	12	
Patents By Year of Application:	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	
Tuesday D, Tour of hpp210u02011		ū	ū	·	•	· ·	· ·	ū	•	ū	ū	•	•				
STATE OF ISRAEL, MINISTRY OF AGRICULT	URE, AGR	ICULTURA	L RESEAR	CH ORGAN	IZATION,	THE VOL	CANI CEN	TER									
Patents By Year of Grant:	0	0	0	0	0	4	2	3	0	0	0	0	1	2	0	12	
Patents By Year of Application:	0	0	0	0	6	3	0	0	0	0	3	0	0	0	0	12	
TREESEARCH (PARTNERSHIP)																	
Patents By Year of Grant:	7	0	0	0	0	0	0	0	0	0	0	1	2	0	2	12	
Patents By Year of Application:	7	0	0	0	0	0	0	0	0	1	2	0	1	1	0	12	
UNIVERSITY OF ARKANSAS																	
Patents By Year of Grant:	0	0	3	0	0	0	4	0	0	0	2	0	0	0	3	12	
Patents By Year of Application:	3	0	0	0	0	4	0	0	1	1	0	0	3	0	0	12	
WIESMOOR-GARTNEREI UND BAUMSCHULE GMB	Н																
Patents By Year of Grant:	7	0	5	0	0	0	0	0	0	0	0	0	0	0	0	12	
Patents By Year of Application:	11	1	0	0	0	0	0	0	0	0	0	0	0	0	0	12	
WOLFGANG BOCK PFLANZENEXPORT KG	_	_	_	_	_	_	_	_		_	_	_			_		
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	3 6	5 0	4	0	0	12 12	
Patents By Year of Application:	U	U	U	U	U	U	U	U	3	3	•	U	U	U	U	12	
FRUIT TREE RESEARCH STATION, MINISTRY	OF AGRI	CULTURE.	FORESTE	RY AND FT	SHERIES												
Patents By Year of Grant:	0	0	3	0	1	0	3	1	2	1	0	0	0	0	0	11	
Patents By Year of Application:	3	0	0	1	2	2	0	2	1	0	0	0	0	0	0	11	
HARTMAN PLANT LABORATORIES, INC.																	
Patents By Year of Grant:	0	0	6	2	3	0	0	0	0	0	0	0	0	0	0	11	

Patents By Year of Application: 6 0 5 0 0 0 0 0

Organizational Patenting				(Grante	d: Jan 0	1, 1977	- Dec 31,	, 2001)	R	anked Li	st of Or	ganizati	ons with	5 or	More Pat	ents	
	Pre																
	1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	TOTAL	
HOFFGAARDE B.V.																	
Patents By Year of Grant:	0	0	0	2	0	0	0	1	7	0	0	0	1	0	0	11	
Patents By Year of Application:	0	0	2	0	0	0	0	8	0	0	1	0	0	0	0	11	
INTER-PLANT PATENT MARKETING, INC.	•	0	•	•	•	2	-	2	0	4	0	0	0	0	0	1.1	
Patents By Year of Grant:	0	0	0 3	0	0 2	3 2	1 0	3 0	0 4	4 0	0	0 0	0	0	0	11 11	
Patents By Year of Application:	U	U	3	U	4	2	U	U	4	U	U	U	U	U	U	11	
INTERNATIONAL PLANT BREEDING AG																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	11	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	11	
racenes by rear or approaction.	•	•	·	•	· ·	•	•	·		•		•	•	•	· ·		
IOWA STATE UNIVERSITY RESEARCH FOUND	ATION INC																
Patents By Year of Grant:	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0	11	
Patents By Year of Application:	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	
JOSEPH H. HILL COMPANY																	
Patents By Year of Grant:	8	1	1	0	0	0	1	0	0	0	0	0	0	0	0	11	
Patents By Year of Application:	10	0	0	0	1	0	0	0	0	0	0	0	0	0	0	11	
L. DAEHNFELDT A/S																	
Patents By Year of Grant:	1	7	1	0	0	0	0	0	0	2	0	0	0	0	0	11	
Patents By Year of Application:	8	1	0	0	0	0	0	0	2	0	0	0	0	0	0	11	
RESEARCH CORPORATION	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		
Patents By Year of Grant:	5	6	0	0	0	0	0	0	0	0	0	0	0	0	0	11	
Patents By Year of Application:	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	
din Mori D. Tud																	
SUN WORLD, INC.	0	0	0	0	3	0	4	0	0	0	1	3	0	0	0	11	
Patents By Year of Grant:	0	0	0	3	2	2	0	0	0	4	0	0	0	0	0	11	
Patents By Year of Application:	U	U	U	3	2	2	U	U	U	4	U	U	U	U	U	11	
UNIVERSITY OF MINNESOTA, THE REGENTS	OF																
Patents By Year of Grant:	2	0	1	3	0	1	1	0	0	0	0	1	1	1	0	11	
Patents By Year of Application:	2	4	0	1	1	0	0	0	0	1	2	0	0	0	0	11	
BAILEY NURSERIES, INC.																	
Patents By Year of Grant:	2	0	1	0	0	0	1	1	0	0	1	1	1	0	2	10	
Patents By Year of Application:	2	1	0	0	1	1	0	0	0	1	1	1	2	0	0	10	
BEGONIA BREEDERS ASSOC. B.V.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	7	3	0	0	10	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	10	

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2001) ---- Ranked List of Organizations with 5 or More Patents ----

Organizacional racenting				(Grance	sa. ban c	1, 10,,	- Dec 31	, 2001)		anked Hi	BC OI OI	ganizaci	Ons with	3 01	MOTE FA	cence
	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	TOTAL
CHOPIN & WRIGHT NURSERY, LTD.																
Patents By Year of Grant:	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Patents By Year of Application:	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
CLEARWATER NURSERY, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	2	2	3	0	2	1	0	0	10
Patents By Year of Application:	0	0	0	0	0	1	1	2	3	2	1	0	0	0	0	10
H. P. METZLER & SONS, INC.																
Patents By Year of Grant:	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Patents By Year of Application:	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
SAKATA SEED CORPORATION																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	2	0	0	0	8	10
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	2	0	0	8	0	0	10
UNIVERSITY OF SYDNEY PLANT BREEDING I	NSTITUTE	, COBBIT	TY													
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	3	3	4	10
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	3	3	4	0	0	10
WASHINGTON STATE UNIVERSITY RESEARCH	FOUNDATI	ON, INC.														
Patents By Year of Grant:	0	0	3	0	0	2	0	1	1	0	0	1	0	1	1	10
Patents By Year of Application:	0	3	0	0	2	1	0	1	0	0	1	2	0	0	0	10
BURCHELL NURSERY, INC.																
Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	0	1	1	0	2	9
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	2	0	2	0	0	9
DENHOLM SEEDS, INC.																
Patents By Year of Grant:	4	0	3	0	1	1	0	0	0	0	0	0	0	0	0	9
Patents By Year of Application:	7	0	0	1	1	0	0	0	0	0	0	0	0	0	0	9
GOLDSTOCK BREEDING LIMITED																
Patents By Year of Grant:	0	0	0	0	0	0	0	5	4	0	0	0	0	0	0	9
Patents By Year of Application:	0	0	0	0	0	3	2	4	0	0	0	0	0	0	0	9
MITSUWA NURSERY, INC.																
Patents By Year of Grant:	3	0	1	1	3	0	1	0	0	0	0	0	0	0	0	9
Patents By Year of Application:	3	1	3	1	1	0	0	0	0	0	0	0	0	0	0	9
NATIVE PLANTS, INC.																
Patents By Year of Grant:	0	0	0	0	7	2	0	0	0	0	0	0	0	0	0	9
Patents By Year of Application:	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	9

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2001) ---- Ranked List of Organizations with 5 or More Patents ----

Organizational ratenting				(Grance	sa. ban c	, , , , , , , ,	- Dec 31	, 2001)	K	anked Di	BC OI OI	ganizaci	Ons with	3 01	More ra	cencs
	Pre															
	1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	TOTAL
OUTBACK PLANTS PTY. LTD.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	2	4	3	9
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	2	4	0	3	0	9
SWEETBRIAR DEVELOPMENT INC.																
Patents By Year of Grant:	0	0	0	0	0	2	0	0	1	2	0	0	4	0	0	9
Patents By Year of Application:	0	0	0	0	2	0	0	1	2	0	0	4	0	0	0	9
WEYERHAEUSER COMPANY																
Patents By Year of Grant:	3	1	4	1	0	0	0	0	0	0	0	0	0	0	0	9
Patents By Year of Application:	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	9
CO-OPERATIVE ROSE GROWERS, INC.																
Patents By Year of Grant:	2	0	3	1	0	2	0	0	0	0	0	0	0	0	0	8
Patents By Year of Application:	4	1	1	0	2	0	0	0	0	0	0	0	0	0	0	8
COLORADO STATE UNIVERSITY RESEARCH FO																
Patents By Year of Grant:	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	8
Patents By Year of Application:	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
DENACHTVLINDER B.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	2	0	0	1	3	1	0	1	8
Patents By Year of Application:	0	0	0	0	0	0	2	0	0	4	1	0	1	0	0	8
ELSNER PAC JUNGPFLANZEN																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	2	4	1	1	0	8
Patents By Year of Application:	0	0	0	0	0	0	0	0	2	4	2	0	0	0	0	8
FIDES, HANDELSKWEKERIJ																
Patents By Year of Grant:	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Patents By Year of Application:	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
INTERNATIONAL PLANT MANAGEMENT																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	8
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	8
NEW PLANTS																
Patents By Year of Grant:	0	1	3	4	0	0	0	0	0	0	0	0	0	0	0	8
Patents By Year of Application:	3	5	0	0	0	0	0	0	0	0	0	0	0	0	0	8
PELARGONIEN-FISCHER KG																
Patents By Year of Grant:	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Patents By Year of Application:	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8

Organizational Patenting				(Grante	d: Jan 0	1, 1977	- Dec 31	, 2001)	R	anked Li	st of Or	ganizati	ons with	5 or	More Pa	tents
	Pre															
	1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	TOTAL
PLANTAS DE NAVARRA S.A.																
Patents By Year of Grant:	0	0	0	0	0	2	0	3	0	2	0	0	1	0	0	8
Patents By Year of Application:	0	0	0	2	0	3	0	0	2	0	1	0	0	0	0	8
SOCIETE ANONYME DES PEPINIERES ET ROS	GEDATEG G	FORGES D	ET.BADD													
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	1	4	0	3	0	8
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	2	3	3	0	0	0	8
TREE INTRODUCTIONS, INC.																
Patents By Year of Grant:	0	0	0	0	2	0	0	0	0	0	0	0	0	5	1	8
Patents By Year of Application:	0	0	2	0	0	0	0	0	0	0	1	4	1	0	0	8
DEROOSE PLANTS BVBA																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	7
GROOT ASSOCIATES II																
Patents By Year of Grant:	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	7
Patents By Year of Application:	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
INNOVAPLANT GMBH & CO. KG																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	2	1	1	3	7
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	2	0	2	2	1	0	7
L. DAEHNFELDT LTD.																
Patents By Year of Grant:	6	0	0	0	0	1	0	0	0	0	0	0	0	0	0	7
Patents By Year of Application:	6	0	0	1	0	0	0	0	0	0	0	0	0	0	0	7
ratenes by rear or apprication:	v	· ·	J	-	U	· ·	U	Ū	U	•	U	•	U	•	3	,
MIYOSHI & CO. LTD.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	3	0	4	0	0	0	7
Patents By Year of Application:	0	0	0	0	0	0	0	0	3	4	0	0	0	0	0	7

REEDLEY NURSERY, INC.

STEWART ORCHIDS

SAKATA SEED AMERICA, INC.
Patents By Year of Grant:

Patents By Year of Grant:
Patents By Year of Application:

Patents By Year of Grant:

Patents By Year of Application:

Patents By Year of Application:

Organizational Patenting				(Grante	d: Jan 0	1, 1977	- Dec 31,	2001)	R	anked Li	st of Or	ganizati	ons with	5 or	More Pat	ents	
	_																
	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	TOTAL	
SUN WORLD INTERNATIONAL, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	5	2	7	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	1	6	0	0	0	7	
UNIVERSITY OF ILLINOIS																	
Patents By Year of Grant:	6	0	0	0	0	0	1	0	0	0	0	0	0	0	0	7	
Patents By Year of Application:	6	0	0	0	1	0	0	0	0	0	0	0	0	0	0	7	
racence of representations				•			•			•						•	
AGROPLANT-SELECT BV																	
Patents By Year of Grant:	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6	
Patents By Year of Application:	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6	
ASTERKLUBBEN																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	6	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	6	
COLOR SPOT NURSERIES, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	1	4	1	6	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	2	3	0	1	0	6	
	-	•	-	-	-	•	-	-	-	•	_	-	-		-	-	
D. S. COLE GROWERS, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	2	1	1	1	1	0	0	6	
Patents By Year of Application:	0	0	0	0	0	0	0	2	1	1	2	0	0	0	0	6	
ESTABLISSEMENTS BARBERAT ET BLANC, LA																	
Patents By Year of Grant:	0	0	2	4	0	0	0	0	0	0	0	0	0	0	0	6	
Patents By Year of Application:	0	2	4	0	0	0	0	0	0	0	0	0	0	0	0	6	
GEBR. MAN C.V.																	
Patents By Year of Grant:	0	0	0	2	0	0	0	0	0	0	0	3	1	0	0	6	
Patents By Year of Application:	0	0	2	0	0	0	0	0	0	0	4	0	0	0	0	6	
GEO. W. PARK SEED CO., INC.																	
Patents By Year of Grant:	1	0	3	0	0	0	0	0	0	0	0	2	0	0	0	6	
Patents By Year of Application:	4	0	0	0	0	0	0	0	0	2	0	0	0	0	0	6	
GILBERG PERENNIAL FARMS, INC.	•		•		•	•	•	•	•		•	•	-	_	_	_	
Patents By Year of Grant:	0	0	0	0	0	0 0	0	0	0	0	0	0 4	3 2	1 0	2 0	6 6	
Patents By Year of Application:	0	0	0	U	U	U	U	U	U	U	U	4	2	U	U	6	
HILLTOP ORCHARDS & NURSERIES, INC.																	
Patents By Year of Grant:	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
Patents By Year of Application:	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	

---- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2001) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre															
	1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	TOTAL
HORTICULTURAL AND FOOD RESEARCH INSTI	TUTE OF	NEW ZEAL	AND LIMI	TED												
Patents By Year of Grant:	0	0	0	0	0	0	0	1	0	0	0	0	0	5	0	6
Patents By Year of Application:	0	0	0	0	0	1	0	0	0	0	5	0	0	0	0	6
KLEHM BOYS PARTNERSHIP																
Patents By Year of Grant:	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Patents By Year of Application:	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
KOALA BLOOMS PTY. LTD.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	6
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	6
METZLER INVESTMENTS																
Patents By Year of Grant:	1	1	4	0	0	0	0	0	0	0	0	0	0	0	0	6
Patents By Year of Application:	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	6
NATIONAL SEED DEVELOPMENT ORGANISATIO	N LIMITE	D														
Patents By Year of Grant:	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	6
Patents By Year of Application:	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
OKANAGAN PLANT IMPROVEMENT CO.LTD.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	3	1	2	0	6
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	4	2	0	0	0	6
ROSES BY FRED EDMUNDS, INC.																
Patents By Year of Grant:	0	0	0	0	1	2	3	0	0	0	0	0	0	0	0	6
Patents By Year of Application:	0	0	0	1	3	2	0	0	0	0	0	0	0	0	0	6
SYNGENTA SEEDS B.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	1	5	0	6
UNIVERSITY OF NEBRASKA, THE BOARD OF	REGENTS	OF														
Patents By Year of Grant:	0	0	1	0	0	0	1	0	0	0	1	0	0	3	0	6
Patents By Year of Application:	1	0	0	0	1	0	0	0	1	0	3	0	0	0	0	6
BARTELS BREEDING B.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	1	4	0	0	5
BIOTECH PLANTS PTY. LTD.																
Patents By Year of Grant:	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5

Organizational Patenting				(Grante	ed: Jan 0	1, 1977	- Dec 31,	2001)	R	anked Li	st of Or	ganizati	ons with	5 or 1	More Pat	ents	-
	Pre																
	1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	TOTAL	
BODGER SEEDS, LTD.																	
Patents By Year of Grant:	0	0	0	4	0	0	1	0	0	0	0	0	0	0	0	5	
Patents By Year of Application:	0	0	4	0	0	1	0	0	0	0	0	0	0	0	0	5	
CARLTON NURSERY COMPANY, INC.																	
Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
CHAS. KLEHM & SON																	
Patents By Year of Grant:	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5	
Patents By Year of Application:	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
COLUMBIA & OKANOGAN NURSERY, INC.																	
Patents By Year of Grant:	1	1	0	1	0	0	0	0	0	1	0	0	0	1	0	5	
Patents By Year of Application:	2	0	1	0	0	0	0	0	1	0	1	0	0	0	0	5	
DELEON'S BROMELIAD WORLD, INC.																	
Patents By Year of Grant:	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	5	
Patents By Year of Application:	0	0	0	2	0	0	0	0	0	0	3	0	0	0	0	5	
ETABLISSEMENTS BARBERET ET BLANC																	
Patents By Year of Grant:	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5	
Patents By Year of Application:  FLOWERWOOD NURSERY INC.	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5	
Patents By Year of Grant:	0	0	0	0	0	0	1	1	3	0	0	0	0	0	0	5	
Patents By Year of Application:	0	0	0	0	0	1	1	1	2	0	0	0	0	0	0	5	
FRAMPTONS NURSERIES LIMITED	-	·		-	·	_	_	_	_	-	-	•	•	-	-	_	
Patents By Year of Grant:	2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	5	
Patents By Year of Application:	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
H. AND B.R. VAN DEN BOSCH B.V.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	3	2	0	5	
Patents By Year of Application:  H. DE MEYER - DE ROUCK B.V.B.A.	0	0	0	0	0	0	0	0	0	0	0	3	2	0	0	5	
Patents By Year of Grant:	0	0	0	0	0	0	0	4	0	0	1	0	0	0	0	5	
Patents By Year of Application:	0	0	0	0	0	1	3	0	1	0	0	0	0	0	0	5	
HOKUETSU NOHJI CO., LTD.																	
Patents By Year of Grant:	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	5	
	_	_	_		_	_	_	_	_	_	-	_	_	_	_		

Patents By Year of Application:

Organizational Patenting				(Grante	ad• .Tan O	11 1977	- Dec 31	2001)	P	anked Li	st of Or	ganizati	one with	5 or 1	More Pat	ents	
organizational rationaling				(Grance	Ja. Jan J	,_, _,,,	200 31	, 2001,		umcu bi	DC 01 01	ganizaci	0115 #1011	5 01 .	nore ru	CIICD	
	Pre																
	1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	TOTAL	
JOHN I. HAAS, INC.	0	0	0	0	0	0	0	3	0	0	1	0	0	1	0	5	
Patents By Year of Grant: Patents By Year of Application:	0	0	0	0	0	3	0	0	0	2	0	0	0	0	0	5	
		-			•	_	•			_	•	•	•	-	-	-	
KONINKLIJKE VAN ZANTEN B.V.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	1	0	0	0	0	0	3	1	5	
Patents By Year of Application:	0	0	0	0	0	1	0	0	0	0	0	4	0	0	0	5	
M. LEK EN ZONEN, B.V. Patents By Year of Grant:	3	0	0	0	0	0	0	0	0	2	0	0	0	0	0	5	
Patents By Year of Application:	3	0	0	0	0	0	0	0	2	0	0	0	0	0	0	5	
racenes by rear or approaction.	,	•	v	•	Ū	· ·	· ·	ŭ	-	Ů	· ·	·	· ·	· ·	·	,	
MT. HOOD LILIES, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5	
Patents By Year of Application:	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	5	
NAKAJIMA TENKOEN CO., LTD.  Patents By Year of Grant:	0	0	0	0	0	4	0	0	0	0	0	0	0	1	0	5	
Patents By Year of Application:	0	0	0	4	0	0	0	0	0	1	0	0	0	0	0	5	
	•	-	-	-		-	•	-	-	_			•	-	-	-	
NATIONAL INSTITUTE OF AGROBIOLOGICAL	RESOURCE	s, minis	TRY OF A	AGRICULTU	JRE, FORE	STRY AND	FISHERI	ES									
Patents By Year of Grant:	0	0	0	0	0	0	0	1	0	0	0	0	0	2	2	5	
Patents By Year of Application:	0	0	0	0	0	1	0	0	0	0	0	2	2	0	0	5	
NEW WORLD PLANTS USA Patents By Year of Grant:	0	0	0	0	0	0	0	1	0	0	4	0	0	0	0	5	
Patents By Year of Application:	0	0	0	0	0	0	1	0	0	4	0	0	0	0	0	5	
racenes by rear or approaction.	•	· ·	· ·	· ·	· ·	Ū	-	· ·	· ·	-	· ·	·	•	Ū	v	,	
OLIJ ROSEN-B.V.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	2	2	1	0	5	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	2	1	2	0	0	0	5	
OREGON BULB FARMS, INC.	0	•	•	0	2	•	•	•	•	•	•	•	•	0		-	
Patents By Year of Grant: Patents By Year of Application:	0	0	0	0 5	3	2	0	0	0	0	0	0	0	0	0	5	
racenes by rear or approaction.	· ·	· ·	· ·	-	v	· ·	·	·	· ·	· ·	•	•	· ·	Ū	v	,	
POULSEN ROSER INTERNATIONAL S.A.R.L.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	1	1	3	0	0	5	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	2	3	0	0	0	0	5	
DAVIS 4-1174 D 11																	
ROYAL SLUIS B.V.	0	0	5	0	0	0	0	•	0	0	0	0	0	0	0	_	
Patents By Year of Grant:	U	0	5	U	0	0	U	0	U	U	U	U	U	U	U	5	

Patents By Year of Application:

Organizational Patenting				(Grante	d: Jan 0	1, 1977	- Dec 31,	2001)	R	anked Li	st of Or	ganizati	ons with	5 or	More Pat	ents	-
	Pre																
	1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	TOTAL	
SCOTTISH CROP RESEARCH INSTITUTE																	
Patents By Year of Grant:	0	0	1	0	0	0	0	0	0	0	2	0	0	2	0	5	
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	2	0	2	0	0	0	5	
SEED RESEARCH SERVICES, LLC	•		•	•	•	•		•		•	•	•	•	•	_	_	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5 0	5	
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	5	
SPRING MEADOW NURSERY, INC.																	
	•	•	•	•	•	•	•	•	•	•			•	0	2	_	
Patents By Year of Grant:	0	0	0	0	0	0	0	0 0	0	0	0 2	1 1	2	•	0	5	
Patents By Year of Application:	0	0	0	0	0	0	0	U	U	0	2	1	1	1	0	5	
TEXAS A&M UNIVERSITY SYSTEM																	
Patents By Year of Grant:	0	0	0	0	1	0	0	0	0	0	0	1	1	2	0	5	
Patents By Year of Application:	0	0	1	0	0	0	0	0	0	0	2	2	0	0	0	5	
Patents by Year or Application:	U	U	1	U	U	U	U	U	U	U	2	2	U	U	U	5	
UNIVERSITY OF CONNECTICUT																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	3	1	1	0	0	0	0	5	
Patents By Year of Application:	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0	5	
racenes by rear or approaction.		•	·	•	•	•		-	-	•		•	•	· ·		3	
UNIVERSITY OF FLORIDA BOARD OF REGENT	rg																
Patents By Year of Grant:	0	0	0	0	1	2	1	1	0	0	0	0	0	0	0	5	
Patents By Year of Application:	0	0	1	1	1	2	0	0	0	0	0	0	0	0	0	5	
raconos sy rour or approaction.	•		-	-	-	_											
UNIVERSITY OF TENNESSEE RESEARCH CORE	PORATION																
Patents By Year of Grant:	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5	
Patents By Year of Application:	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
YOVAL AGRICULTURAL PRODUCTS LTD.																	
Patents By Year of Grant:	0	0	0	0	0	0	1	1	0	3	0	0	0	0	0	5	
Patents By Year of Application:	0	0	0	0	2	0	0	3	0	0	0	0	0	0	0	5	
Other Organizations (460)																	
Patents By Year of Grant:	146	48	40	29	27	23	36	41	32	35	49	50	57	59	64	736	
Patents By Year of Application:	217	30	34	28	34	29	27	35	64	55	66	61	41	11	4	736	